Date: June 30, 1997

PROGRESS REPORT

on the Project Automatic Target Recognition (N94-124)

for SMALL BUSINESS INNOVATION RESEARCH Phase II

> Aegir Contract No.: 1079-000 Contract No.: N00014-96-C-0069 CDRL No. 0001

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Data Manager/

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Progress Report on the Project automatic Target Recognition (N94-124) June 30, 1997

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AUTOMATIC TARGET RECOGNITION (SBIR N94-124) TASK D2.a REPORT (June 30, 1997)

Construction of A Digital Signature Database

Executive Summary

Under Task D2.a, our major responsibility is to construct a digital signature database, which will be used in Task D2.b for signature recognition based on elastic matching of the stochastically deformable wavelet template (SDWT). We have built a signature database consisting 100 representative English names. A hard copy of these signatures is included in this report, and the digital signature files are also stored in a CD-ROM for reproduction and/or retrieval.

1 Procedure for Digital Signature Database Construction

The procedure of building the signature database is described below.

Step 1. Signature Table Design
First, we design a signature table which contains a title and 27 signature fields. Each table is printed on two pages of size 8.5 × 11. Page one contains the title and Item #1 to #12, and Page two contains Item #13 to #27. The title is an English name randomly selected from the dictionary. Signature items are arranged in a 3 × 9 array.

The array can be divided into two parts. the first part consists of Row 1 to Row 7 with authentic signatures while the second part consists of Rows 8 and 9 with forged signatures. In Part one, Item 1 to Item 9 are for signatures without underlines or enclosing boxes, Item 10 to Item 15 are signatures with underlines, and Item 16 to Item 18 are signatures with enclosing boxes. In Part two, Row 8 is the forged signatures without the knowledge of the true signature while Row 9 is the forged signature by imitating the authentic signature.

- Step 2. Signature Collection
 One hundred signature tables were given to 100 people. Each person signed Item 1 to Item
 21. He was also responsible for finding someone to sign Item 22 to Item 27.
- Step 3. Converting Signature Tables into Images
 An AGFA scanner was used to scan the above 100 signature tables into images. After trying
 different image resolutions to get the best trade-off between the image quality and the image
 storage requirement, we chose 150 DPI resolution for scanning. Then, signature tables were
 converted into gray-level images of size 2224 × 2742.
- Step 4. Signature Image Post-processing
 Three tasks were performed in this step. The first task is to transform gray-level signature
 images into binary images. Thresholding based on local intensity is used for image binariza tion. The second task is to eliminate item numbers on the signature images using image

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Isaac Galton

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Cecilia Brenda

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Douglas Enders

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Michael Pierce

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Alberta York

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Carrie Boris

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Isabella Hopkins

Isabelle Hopkins Isa bella Kapkins I sa bella Hypkins Isabella Hoghins I sa belle Hoghins Isa bella Kaplins Isabella Kapkins Isabella Myhins Isabella Koghin Isa fella Hoghins In bella Kophics Isabella Kophins Isa bella Hoghins Isabella Koghins Isabella Hoghin, Isabela Hoglins Isakelh Hybins Isa bella Kazhini Isabella Koglins Isakella Hoghins Isabelle Hopins

Isabella Hopking Isabelle Hopkins

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Jonathan Lodge

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Alex Vancouver

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Tyrone Locker

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Solomon Reads

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Bob Churchill

Bob Chuchil

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Cuth but Evans Cuthbreat Evans Cuthbreat Evans

Gray Hamilton

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Tom Springhall

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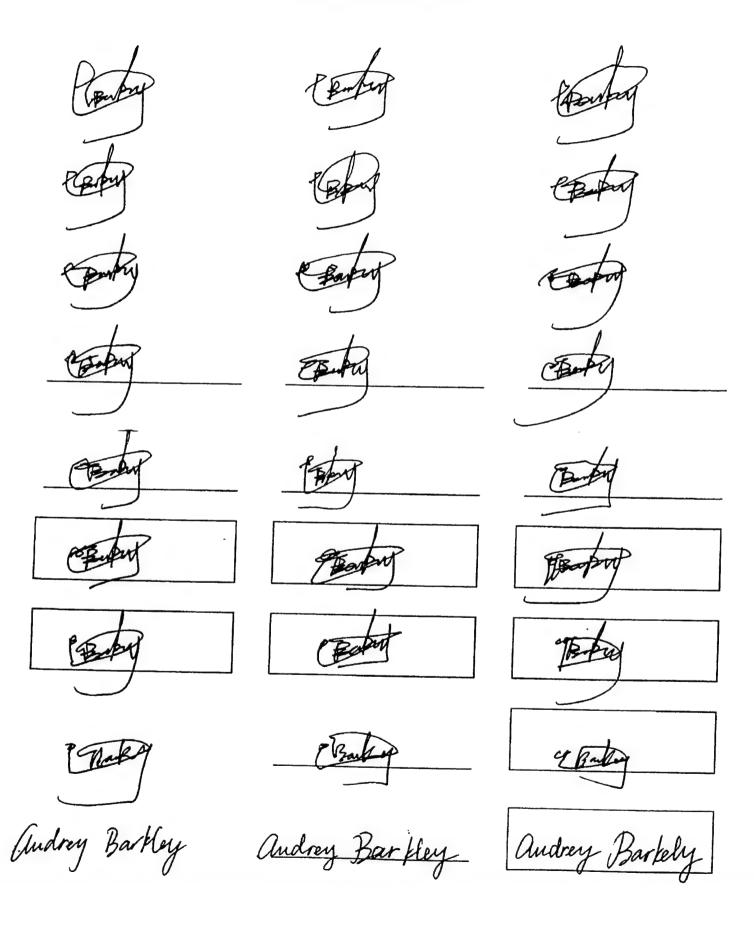
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Audrey Barkley



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Boyd Cleveland

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Kurt Watts

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Merry Bright

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Homer Johnston

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